

WHAT IS CLAIMED IS:

1. A storage capacitor, comprising:

at least one first electrode including a stack of metal parts spaced at intervals from
5 one another, and contact elements connecting respective pairs of the metal parts;

at least one second electrode including a stack of metal parts spaced at intervals
from one another, and contact elements connecting respective pairs of the metal parts; and

the at least one first electrode and the at the least one second electrode positioned
laterally adjacent one another and cooperable with one another to provide a storage

10 capacitance.

2. The storage capacitor of Claim 1, wherein the stack of the at least one first
electrode extends substantially parallel to the stack of the at least one second electrode.

15 3. The storage capacitor of Claim 1, including a plurality of the second
electrodes positioned laterally adjacent and peripherally around the at least one first
electrode.

4. The storage capacitor of Claim 3, wherein the second electrodes are
20 substantially evenly distributed peripherally around the at least one first electrode.

5. The storage capacitor of Claim 3, wherein the second electrodes are
positioned on a rectangle that surrounds the at least one first electrode.

6. The storage capacitor of Claim 3, wherein the second electrodes are positioned on a hexagon that surrounds the at least one first electrode.

7. The storage capacitor of Claim 3, wherein the second electrodes are
5 positioned on a diamond shape that surrounds the at least one first electrode.

8. The storage capacitor of Claim 1, including a plurality of the second electrodes connected together.

10 9. The storage capacitor of Claim 8, including a plurality of the first electrodes connected together.

10. The storage capacitor of Claim 8, including a further metal part and further contact elements connecting the further metal part to the second electrodes, the further
15 metal part spaced from the at least one first electrode in a longitudinal direction of the at least one first electrode by a distance corresponding to a thickness of the further contact elements.

11. The storage capacitor of Claim 1, wherein the metal parts of the at least one
20 first electrode are positioned in respectively corresponding metal layers in which respectively corresponding metal parts of the at least one second electrode are also respectively positioned.

12. The storage capacitor of Claim 1, including a plurality of the second electrodes, the metal parts of each of the second electrodes positioned in respectively corresponding metal layers in which respectively corresponding metal parts of the remaining second electrodes are also respectively positioned, and wherein the metal parts in
5 at least one of the metal layers are connected together.

13. A memory cell arrangement, comprising:
a plurality of memory cells for storage of information, each said memory cell including a storage capacitor; and

10 each said storage capacitor including at least one first electrode that includes a stack of metal parts spaced at intervals from one another, and contact elements connecting respective pairs of the metal parts;

each said storage capacitor including at least one second electrode that includes a stack of metal parts spaced at intervals from one another, and contact elements connecting
15 respective pairs of the metal parts; and

the at least one first electrode and the at the least one second electrode of each said storage capacitor positioned laterally adjacent one another and cooperable with one another to provide a storage capacitance.

20 14. The memory cell arrangement of Claim 13, wherein at least one of the second electrodes is included in adjacent ones of said storage capacitors.

15. The memory cell arrangement of Claim 13, including a further metal part connecting all of the second electrodes of all of the storage capacitors to one another.

16. A microelectronic circuit, comprising:

5 at least one storage capacitor, the at least one storage capacitor including at least one first electrode that includes a stack of metal parts spaced at intervals from one another, and contact elements connecting respective pairs of the metal parts;

the at least one storage capacitor including at least one second electrode that includes a stack of metal parts spaced at intervals from one another, and contact elements
10 connecting respective pairs of the metal parts; and

the at least one first electrode and the at the least one second electrode positioned laterally adjacent one another and cooperable with one another to provide a storage capacitance;

a selection circuit coupled to the at least one first electrode of the at least one
15 storage capacitor; and

the at least one second electrode of the at least one storage capacitor adapted for coupling to a predetermined potential.

17. The microelectronic circuit of Claim 16, including a memory cell
20 arrangement, said memory cell arrangement including a plurality of said storage capacitors, said storage capacitors forming respective memory cells for storage of information.